

METHOD AND SYSTEM FOR DELIVERING AN IMPLANT
UTILIZING A LUMEN REDUCING MEMBER

FIELD OF THE INVENTION

5 The field of the invention relates to implantable
devices, and more particularly, to a method and system for
inserting a delivery sheath or catheter through a vascular
body using a lumen-reducing catheter and delivering an
implantable device through the delivery catheter or the
10 lumen-reducing catheter.

BACKGROUND

In many clinical situations, blood vessels are
occluded with various implants to control bleeding, prevent
15 blood supply to tumors, block blood flow within an aneurysm
or other vascular malformations. Intracranial aneurysms,
for example, may rupture causing significant bleeding. The
significant bleeding may permanently damage the surrounding
brain tissue, possibly causing serious injury and death.
20 Intracranial aneurysms may be particularly difficult to
access and treat when they are formed in remote cerebral
blood vessels. If left untreated, hemodynamic forces of
normal pulsatile blood flow can rupture fragile tissue in
the area of the aneurysm causing a stroke (not needed).

25 Various implants have been used to occlude vascular
sites. For example, vaso-occlusive devices are surgical
implants that are delivered through a catheter in a blood
vessel or vascular cavity and placed within aneurysm to
form a thrombus and occlude the aneurysm. In one
30 conventional system, a guide wire is inserted through a
vascular cavity. An outer catheter or sheath is guided by